

**Preliminary Diagnoses of some New Species and
Subspecies of Mammals and Birds
Obtained in Korinchi, West Sumatra, Feb.—June 1914**

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The following brief diagnoses, which are merely sufficient to establish the species and subspecies, are published in advance of the detailed report on our expedition to Korinchi Peak to be issued by this society, which may possibly be somewhat delayed. In it will be found the narrative of the expedition, detailed descriptions of all new forms and a complete account of the zoological and botanical results.

MAMMALS.

ERINACEIDAE.

Hylomys parvus, sp. nov. *Type*:—Adult female (skin and skull), Federated Malay States Museums No. 576/14, collected on Korinchi Peak, 10,000', West Sumatra, on 9th May 1914, by H. C. Robinson and C. Boden Kloss.

Characters:—Like *H. suillus*¹ but smaller, though with tail actually longer and bicolored; fur longer and less harsh and the grey of the underparts rather more pronounced. Skull more lightly built, teeth strikingly smaller.

Measurements:—Head and body, [105 av.]; tail, 25; hindfoot, 23.5 mm. Skull: greatest length, 31.2; basal length, 27.8; palatal length, 17.0; upper tooth row, 15.8; pm^4-m^3 , 6.9; breadth of palate behind canine, 4.4; zygomatic breadth, 15.6; length of mandible, 22.4 mm.

Specimens examined:—Twenty.

SCIURIDAE.

Sciurus tenuis altitudinis, subsp. nov. *Type*:—Adult male (skin and skull), Federated Malay States Museums No. 471/14, collected at Sungei Kring, Korinchi Peak, 7,300',

1. *Mueller and Schlegel, Verhandelingen. Naturr. Gesch. Ind. Zool.* p. 153; pl. 25, figs. 4-7; pl. 26, fig. 1 (1839-44).

West Sumatra, on 28th April 1914, by H. C. Robinson and C. Boden Kloss.

Characters:—A form of *Sc. tenuis* about the size of *Sc. t. gunong*² from the mountains of the Siamese Malay States but with much longer fur and longer and narrower nasals.

Measurements:—Head and body, 150; tail, 115; hindfoot, 36 mm. (taken in the flesh). Skull: greatest length, 40.8; condylo-basilar length, 33.2; palatilar length, 15.3; diastema, 9.1; upper molar row inclusive of pm^3 , 7.4; median nasal length, 12.3; interorbital breadth, 12.9; zygomatic breadth, 23.5 mm.

Specimens examined:—Thirteen.

Sciurus vanakeni, sp. nov. *Type*:—Adult male (skin and skull), Federated Malay States Museums No. 650/14, collected at Barong Bharu, West side Barisan Range, Korinchi, 4,000', West Sumatra, on 4th June 1914, by H. C. Robinson and C. Boden Kloss.

Characters:—A small dark-backed member of the *Sc. lowi*³ group, with the pale colour of the under-surface reduced in extent and indistinctly margined. Skull and teeth smaller than the Bornean and allied Malay Peninsula forms.

Measurements:—Head and body, 122; tail, 57 (imperfect) normally 80-90; hind foot, 30 mm. (measured in flesh). Skull: greatest length, 34.0; condylo-basilar length, 28.1; palatilar length, 14.0; diastema, 7.8; upper molar row including pm^3 , 5.7; median length nasals, 9.7; interorbital breadth, 10.5; zygomatic breadth, 19.2 mm.

Specimens examined:—Thirteen.

MURIDAE.

Oromys, gen. nov.

External form as in *Epimys*, tail not shorter than head and body. Fur dense and long, interspersed with longer very slender spines. Hindfoot with fifth toe reaching beyond the middle of the basal phalanx of the fourth; six distinct elevated plantar pads. Seven palatal ridges, the last four divided mesially.

Skull slender, narrow and tapering; zygomata much compressed anteriorly; no masseteric knob present at the base as in *Mus*; lateral profile of rostrum straight; posterior terminations of premaxillae very oblique; interorbital breadth great; no supraorbital or parietal ridges; interparietal transversely long and narrow, front and back edges almost parallel.

2. Robinson and Kloss, *Journ. Fed. Malay States Mus.* v, p. 119 (1914).

3. Thomas, *Ann. and Mag. Nat. Hist.* (6) ix, p. 253 (1892).

Palatal foramina long and narrow; interpterygoid space narrow, with almost parallel sides, not wider anteriorly. Bullae moderately dilated (as in the *Epimys whiteheadi* group). Ascending ramus of mandible very low, coronal process much reduced.

Bevelled edge of incisors notched and proportions of molars as in *Mus*, but the structure more nearly as in *Epimys*, though the transverse laminae are slightly more curved and the anterior cusp of the first lower molar situated more on the inner side of the tooth. Combined length of the second and third upper molars about three-fourths that of the first. Upper incisors scarcely curved, lower very long and slender.

Type:—*Oromys crociduroides*, sp. nov.

Oromys crociduroides, sp. nov. *Type*:—Adult female (skin and skull), Federated Malay States Museums, No. 571/14, collected on Korinchi Peak, 10,000', West Sumatra, on the 8th April 1914, by H. C. Robinson and C. Boden Kloss.

Characters:—A small, thickly-furred, dark-coloured rat, belly slightly paler than, and not sharply differentiated from, the sides. Tail longer than head and body.

Measurements:—Head and body, 103; tail, 133; hindfoot, 22 mm. (measured in flesh). Skull: greatest length, 27.7; condylo-basilar length, 25.7; diastema, 9.8; upper molar row, 4.1; length of palatal foramina, 5.0; median nasal length 11.7; breadth of nasals, 2.7; zygomatic breadth, 12.9 mm.

Specimens examined:—Thirty-five.

Epimys setiger, sp. nov. *Type*:—Adult female (skin and skull) Federated Malay States Museums, No. 626/14, collected at Barong Bharu, West side Barisan Range, Korinchi, 4,000', West Sumatra, on 11th June 1914, by H. C. Robinson and C. Boden Kloss.

Characters:—Like *E. ciliata* (Bonhote)⁴ but with underparts chalk-white instead of ivory-white; tail and feet longer. Skull with shorter nasals, larger teeth and longer palatal foramina.

Measurements:—Head and body, 290; tail, 352; hindfoot, 56 mm. (measured in flesh). Skull: greatest length, 60.6; condylo-basilar length, 52.0; diastema, 15.9; upper molar row, 11.3; length of palatal foramina, 9.7; median length of nasals, 22.0; breadth of nasals, 7.0; zygomatic breadth, 26.8 mm.

Specimens examined:—Two.

4. *Mus ciliata*, Bonhote, P. Z. S. 1900, p. 879, pl. LVI.

Epimys ululans, sp. nov. *Type*:—Adult male (skin and skull), Federated Malay States Museums, No. 233/14, collected at Siolak Dras, Korinchi Valley, 3,100', West Sumatra, on 17th March 1914, by H. C. Robinson and C. Boden Kloss.

Characters:—Externally closely resembling *Epimys vociferans* (Miller)⁵ with bicolor tail; but skull with interpterygoid space narrower and parallel-sided, the pterygoids less prominent and projecting and the palatal foramina narrower, the upper tooth row shorter and not diverging posteriorly to the same extent.

Measurements:—Head and body, 237; tail, 253; hindfoot, 45 mm. (measured in flesh). Skull: greatest length, 53.5; condylo-basilar length, 46.1; diastema, 14.1; upper molar row, 9.8; length of palatal foramina, 7.7; median nasal length, 20.5; breadth of nasals, 6.1; zygomatic breadth, 24.7 mm.

Specimens examined:—The type.

Epimys similis, sp. nov. *Type*:—Adult female with worn teeth (skin and skull), Federated Malay States Museums, No. 285/14, collected at Siolak Dras, Korinchi Valley, 3,100', West Sumatra, on 21st March 1914, by H. C. Robinson and C. Boden Kloss.

Characters:—Resembles *E. pella*x (Miller)⁶ of the Malay Peninsula but has the colour of the upper parts extending over the inner side of the fore-limbs and thighs, cutting off the white of the abdomen from the extremities. Skull narrower and less robust.

Measurements:—Head and body, 186; tail, 183; hindfoot, 37.5 mm. (measured in flesh). Skull: greatest length, 43.3; condylo-basilar length, 36.5; diastema, 12.3; upper molar row, 6.9; length of palatal foramina, 6.0; median nasal length, 17.2; breadth of nasals, 4.0; zygomatic breadth, 18.0 mm.

Specimens examined:—Five.

Epimys ravus, sp. nov. *Type*:—Adult (aged) male (skin and skull) Federated Malay States Museums, No. 422/15, collected at Sungei Kumbang, Korinchi, 4,700', West Sumatra, on 20th April 1914, by H. C. Robinson and C. Boden Kloss.

Characters:—Like *E. catellifer* (Miller)⁷ with comparatively slender dorsal spines but tail more markedly bicolor; tail and feet longer; no buffy abdominal markings.

5. *Mus vociferans*, Miller, *Proc. Biol. Soc. Washington*, xiii, p. 138, pls. 3, 4, fig. 3 (1900).

6. *Mus pella*x, Miller, *Proc. Biol. Soc. Washington*, xiii, p. 147 (1900).

7. *Mus catellifer*, Miller, *Proc. U. S. Nat. Mus.* xxvi, p. 464 (1903).

Measurements:—Head and body, 192; tail, 202; hindfoot, 43 mm. (measured in flesh). Skull: greatest length, 48.0; condylo-basilar length, 39.5; diastema, 13.0; upper molar row, 6.8; length of palatal foramina, 6.5; median length of nasals, 18.6; breadth of nasals, 4.9; zygomatic breadth, 21.0 mm.

Specimens examined:—Twenty-four.

Epimys inflatus, sp. nov. *Type*:—Adult female (skin and skull) Federated Malay States Museums, No. 323/14, collected at Sungei Kumbang, Korinchi, 4,700', West Sumatra, on 2nd April 1914, by H. C. Robinson and C. Boden Kloss.

Characters:—A tawny spinous-backed rat with a bicolored tail and sullied under-surface, having a superficial resemblance to the rats of the *rajah-surifer* group: skull closely resembling these but with a pronounced swelling on the sides of the rostrum immediately in front of the infraorbital plate.

Measurements:—Head and body, 200; tail, 155; hindfoot, 40 mm. (measured in flesh). Skull: greatest length, 46.6; condylo-basilar length, 39.3; diastema, 13.4; upper molar row, 6.5; length of palatal foramina, 8.2; median nasal length, 10.1; breadth of nasals, 5.3; zygomatic breadth, 20.3; breadth of rostrum across swellings, 11.0 (in a specimen of *E. surifer* of equal size, 8.0 mm.).

Specimens examined:—Twenty.

Epimys fraternus, sp. nov. *Type*:—Adult male (skin and skull), Federated Malay States Museums, No. 381/14, collected at Sungei Kumbang, Korinchi, 4,700', West Sumatra on 13th April 1914, by H. C. Robinson and C. Boden Kloss.

Characters:—Rather darker above than *E. orbus*, Robinson and Kloss,⁸ of the Siamese Malay States with the dark tips of the spines more exposed and having below an ochraceous-tawny patch on the chest, which is always lacking in Malayan animals.

Measurements:—Head and body, 162; tail, 231; hindfoot, 32.5 mm. Skull: greatest length, 40.6; condylo-basilar length, 33.5; diastema, 10.2; upper molar series, 6.9; length of palatal foramina, 6.4; median nasal length, 16.4; breadth of nasals, 4.6; zygomatic breadth, 17.2 mm.

Specimens examined:—Thirty-four.

Epimys hylomyoides, sp. nov. *Type*:—Aged male (skin and skull), Federated Malay States Museums, No. 440/14, collected at Sungei Kring, Korinchi Peak, 7,300', West Sumatra, on 26th April 1914, by H. C. Robinson and C. Boden Kloss.

8. *Ann. and Mag. Nat. Hist.* (8) xiii, p. 228 (1914).

Characters:—A small concolorous rat with a bicolored tail: base of pelage throughout dark neutral grey, the fur long and soft, thickly beset on the back with long, slender, pliable spines. Tail almost the same length as the head and body.

Measurements:—Head and body 126; tail, 126; hind-foot, 27 mm. (measured in the flesh). Skull: greatest length, 34.4; condylo-basilar length, 28.8; diastema, 8.3; upper molar row, 6.0; length of palatal foramina, 4.5; median nasal length, 12.9; breadth of nasals, 3.2; zygomatic breadth, 14.9 mm.

Specimens examined:—Fifteen.

Epimys stragulum, sp. nov. *Type*:—Adult male (skin and skull), Federated Malay States Museums, No. 482/14, collected at Sungei Kring, Korinchi Peak, 7,300', West Sumatra, on 30th April 1914, by H. C. Robinson and C. Boden Kloss.

Characters:—A species of the *concolor-ephippium* group but with the pelage long and soft, beset with a number of slender, long, hardly distinguishable spines, with dark tips and whitish centres. Skull and teeth like those of *E. ephippium*⁹ but with the bullae smaller and the posterior termination of the nasals a little narrower.

Measurements:—Head and body, 109; tail, 136; hind-foot, 23 (measured in flesh). Skull: greatest length, 30.0; condylo-basilar length, 25.0; diastema, 7.4; upper molar row, 5.0; length of palatal foramina, 5.2; median nasal length, 10.7; breadth of nasals, 3.0; zygomatic breadth, 14.3 mm.

Specimens examined:—Ten.

Epimys rattus argentiventer subsp. nov. *Type*:—Adult male with worn teeth (skin and skull), Federated Malay States Museums, No. 602/14, collected at Pasir Ganting, coast of West Sumatra, Lat. 2° 7' S., on 20th June 1914, by H. C. Robinson and C. Boden Kloss.

Characters:—Like *E. r. neglectus* (Jent.)¹⁰ but with the annulations of the fur of the upper parts coarser and less ochraceous and with the underparts silver-grey throughout. Tail shorter than head and body. Skull with larger bullae, palatal foramina and teeth.

Measurements:—Head and body, 184; tail, 173; hindfoot, 32 mm. Skull: greatest length, 41.0; condylo-basilar length, 36.2; diastema, 11.0; upper molar row, 7.9; length of palatal foramina, 8.5; median nasal length, 14.7; breadth of nasals, 4.2; zygomatic breadth, 19.8 mm.

Specimens examined:—One, the type.

9. *Mus ephippium*, Jentink, *Notes Leyden Museum*, ii, p. 15 (1880).

10. *Mus neglectus*, Jentink, *Notes Leyden Museum*, ii, p. 14 (1880).

Epimys korinchi, sp. nov. *Type*:—Adult female (skin and skull), Federated Malay States Museums, No. 442/14, collected at Sungei Kring, Korinchi Peak, 1,300', West Sumatra, on 26th April 1914, by H. C. Robinson and C. Boden Kloss.

Characters:—Like *E. baluensis* (Thomas)¹¹ with long, soft and spineless fur, beset on the upper surface with numerous longer piles; but with longer tail and paler underparts; nasals broader, but bullae much smaller: teeth considerably larger.

Measurements:—Head and body, 166; tail, 224; hindfoot, 34; ear, 23 mm. (measured in flesh). Skull: greatest length, 41.0; condylo-basilar length, 35.5; diastema, 10.9; upper molar series, 1.9; length of palatal foramina, 8.2; median nasal length, 15.3; breadth of nasals, 4.9; zygomatic breadth, 19.0 mm.

Specimens examined:—The type and an immature female.

Epimys muelleri campus, subsp. nov. *Type*:—Adult female (skin and skull) Federated Malay States Museums No. 586/14, collected at Pasir Ganting, coast of West Sumatra, Lat. 2° N S., on 18th June 1914, by H. C. Robinson and C. Boden Kloss.

Characters:—Like the typical *E. muelleri*,¹² but with the buff element in the upper pelage a little richer in tone: rostrum decidedly broader, zygomatic width greater and the bullae a little larger.

Measurements:—Head and body, 214; tail, 256; hindfoot, 44 mm. (measured in flesh). Skull: greatest length, 53.1; condylo-basilar length, 46.0; diastema, 14.2; upper molar row, 9.2; length of palatal foramina, 8.6; median nasal length, 22.0; breadth of nasals, 6.0; zygomatic breadth, 26.6 mm.

Specimens examined:—Three.

BIRDS.

STRIGIDAE.

Pisorhina vandewateri, sp. nov. A small species of owl, with the bill clear yellow, tarsi partially bare for one third their length in front, post-cervical collar strongly marked. A member of the group in which is included *Heteroscops luciae*¹³ of Borneo, *Heteroscops vulpes*¹⁴ of the Malay Peninsula and

11. *Mus baluensis*, Thomas, *Ann. and Mag. Nat. Hist.* (6) xiv, p. 458 (1894).

12. *Mus muelleri*, Jentink, *Notes Leyden Museum*, ii, p. 16 (1880).

13. *Scops luciae*, Sharpe, *Ibis*, 1888, p. 478; *id. op cit.* 1889, p. 77, Pl. III.

14. *Heteroscops vulpes*, Ogilvie Grant, *Bull. Brit. Orn. Club*, xix, p. 11 (1906).

*Scops rufescens*¹⁵ from the same general region. From the latter it can be separated by its strongly mottled undersurface and from the two former by its strongly marked collar and much darker general tone. The characters of the facial plumes are similar to those of *H. luciae*.

Type:—Adult female, No. 1097, collected on Korinchi Peak, at 7,300 feet, West Sumatra, on April 23rd 1914, by H. C. Robinson and C. Boden Kloss.

Specimens examined:—One, the type.

EURYLAEMIDAE.

+ *Serilophus lunatus intensus*, subsp. nov. Differs from the Malay Peninsula form *Serilophus lunatus rothschildi*, in the same way as that does from the typical race from Tenasserim. General colour of the mantle and the chestnut of the inner secondaries and rump very much richer in tone, and under surface a darker grey. Greyish white of the crown, stopping somewhat abruptly at the level of the eyes and the ear-coverts washed with clay brown as in the typical race and not so grey as in *S. l. rothschildi*.¹⁶

Dimensions:—6 ♂. Total length, 167-177; wing, 80-86; tail, 66-70; tarsus, 17.5-19; bill from gape, 20.5-22.5 mm. (measured in the flesh). 4 ♀. Total length, 165-178; wing, 78-87; tail, 67-69; tarsus, 18.5-20.5; bill from gape, 20.5-22.5 mm. (measured in flesh).

Types:—Male No. 256; female No. 36; collected at Siolak Dras, Korinchi Valley, 3,100 feet, West Sumatra, on 19th and 24th March 1914, by H. C. Robinson and C. Boden Kloss.

Specimens examined:—Ten.

TIMELIIDAE.

+ *Turdinulus epilepidotus dilutus*, subsp. nov. Differs from *T. epilepidotus*¹⁷ from Java in being considerably lighter (less blackish) above and in having the feathers of the throat more decidedly tipped with black, those of the Javan form being almost immaculate in the centre of the throat. Dimensions slightly different from those of the Javan bird, the tail and tarsus being slightly longer and the bill decidedly shorter.

Dimensions:—Of type: Total length, 110; wing, 57; tail, 36; tarsus, 23; bill from gape, 19 mm. Range of eight adult males. Total length, 108-120; wing, 55-58; tail 36-40; bill from gape, 17-19; tarsus 22.5-27 mm. Range of six Javan specimens. Total length, 116-125; wing, 52-59; tail, 31-35;

15. *Strix rufescens*, Horsfield, *Trans. Linn. Soc.*, xiii, p. 140 (1820).

16. *Serilophus rothschildi*, Hartest, *Bull. Brit. Orn. Club*, vii, p. 50 (1908).

17. *Myiothera epilepidota*, Temminck, *Pl. Col.* ii, pl. 448, fig. 2 (1827).

bill from gape, 19.5-21; tarsus, 21-24 mm. All measurements taken in the flesh.

Type:—Adult male, collected at Sungei Kumbang, Korinchi, 4,700', West Sumatra, on 13th April 1914, by H. C. Robinson and C. Boden Kloss.

Specimens examined:—Twenty-one.

TURDIDAE.

+ *Turdus indrapuræ*, sp. nov. Very closely allied to *Turdus fumidus*¹⁸ from the Gedeh Volcano, West Java, but distinguished by having the general colour of the upper parts and of the throat and upper breast dark earthy brown, distinctly paler on the cap; whereas in *T. fumidus*, the mantle is dark bronzy grey, tinged with olivaceous, with the cap blackish, distinctly darker than the rest of the upper parts. Belly and flanks earthy chestnut richer in tint than the corresponding parts of *T. fumidus*, centre of belly and anal patch whitish, under tail coverts blackish brown with narrow shaft stripes, white, tinged with buff, these shaft stripes being narrower than in *T. fumidus* but broadening to the tip.

Dimensions:—Male: Total length, 242; wing, 122; tail, 110; tarsus, 32; bill from gape 25 mm. (measured in flesh). Female: Total length, 242; wing, 122; tail, 103; tarsus, 30; bill from gape, 27 mm. (measured in flesh).

Types:—Male, No. 1196; female, No. 1274; collected on Korinchi Peak, at 10,000 feet, West Sumatra, on April 27th and April 29th 1914, by H. C. Robinson and C. Boden Kloss.

Specimens examined:—Twenty seven.

MUSCICAPIDAE.

+ *Cryptolopha sumatrensis*, sp. nov. Closely allied to *Cryptolopha grammiceps* (Strickl.)¹⁹ of Java, from which it differs in having the mantle and back clear grey, not light ashy brown and in the absence of the white on rump, which is uniform with the lower back.

Dimensions:—Male: Total length, 107; wing, 54; tail, 48; tarsus, 17.5; bill from gape, 12.5 mm. Female: Total length, 107; wing, 52; tail, 43; tarsus, 18; bill from gape, 12.5 mm. (taken in the flesh).

Types:—Male, No. 538; Female, No. 529; collected at Sungei Kumbang, Korinchi, at 4,700 feet, on 31st March and 1st April 1914, by H. C. Robinson and C. Boden Kloss.

Specimens examined:—Seventeen.

18. S. Mueller, *Verh. Nat. Gesch. Nederl. Ind.* p. 201 (1839).

19. Pycnosphys grammiceps, Verreaux, *Mss*; Strickl. *Contrib. Orn.* 1849 p.—Jardine, *Memoir of Hugh Strickland*, p. 323 (1858).

* *Cryptolopha muelleri*, sp. nov. In general appearance resembling the preceding species but differing in having the rump, sides of the body and under tail coverts bright sulphur yellow, the scapulars and lower back olive green and the outer tail feathers edged and tipped with white. In these particulars it resembles *C. castaneiceps* (Hodgs.)²⁰ of the Himalayas, from which it is separated by the cinnamon chestnut of the lores, sides of the head and ear coverts, which are white or grey in that species.

Dimensions:—Total length, 98; wing, 53; tail, 41; tarsus, 18; bill from gape, 13 mm. (in dried skin).

Type:—Adult male, No. 2088, collected at Barong Bharu, Barisan Range, 4,000 feet, West Sumatra, on June 8th 1914, by H. C. Robinson and C. Boden Kloss.

Specimens examined:—One, the type.

DICAEIDAE.

* *Dicaeum beccarii*, sp. nov. Allied to *D. ignipectus*²¹ from the Himalayas and the Malay Peninsula, but differing in the entire absence of red in the plumage and in the reduction of the black abdominal patch, which is without gloss.

Dimensions:—Male, total length, 92; wing, 50; tail, 34; tarsus, 14; bill from gape, 10 mm. (measured in flesh).

Type:—Adult male, No. 1,111, collected on Korinchi Peak, at 7,300 feet, West Sumatra, on 26th April 1914, by H. C. Robinson and C. Boden Kloss.

Specimens examined:—Three.

20. *Abornis castaneiceps*, Hodgs, in *Gray's Zool. Misc.* p. 82 (1844).

21. *Myzanthus ignipectus*, Hodgson, *Journ. Asiat. Soc. Bengal*, xx, p. 983 (1843).